## **AMENDMENTS TO THE CLAIMS**

- 1. (currently amended) A process for polymerizing <u>in a first polymerization</u> at least one olefinic monomer <u>selected from ethylene</u>, <u>propylene and 1-butene</u> in a <u>first loop</u> reactor <u>in the presence of a polymerization catalyst</u> at from 20 to 150°C, but below the melting point of <u>thea</u> polymer to be formed, and a pressure of from <u>5 to 10043 to 80</u> bar, where the polymer formed is present in a suspension in a liquid or supercritical suspension medium and <u>thiswherein the</u> suspension is circulated by means of an axial pump, wherein the polymerization is carried out at an average solids concentration in the reactor of more than 53% by weight, based on the total mass of the contents of the reactor, in the case of continuous product discharge, and at an average solids concentration in the reactor, in the case of discontinuous product discharge, and wherein the polymerization is carried out at an ethylene concentration of at least 10 mol%, based on the suspension medium.
- 2. (currently amended) A<u>The</u> polymerization process as claimed in claim 1, wherein the loop reactor comprises a cyclic reactor tube whosecomprising a diameter varies varying by at least 10%, based on thea predominant reactor tube diameter, and in which there is at least one widening and narrowing in a region other than that of the axial pump.
- 3. (currently amended) A<u>The</u> process as claimed in claim 1-or 2, wherein there is an additional a widening and narrowing of the reactor tube in the region of the axial pump.
- 4. (cancelled).
- 5. (currently amended) A<u>The</u> process as claimed in any of the preceding claimsclaim 1, wherein the at least one olefinic monomer comprises ethylene is used as a first monomer and at least one α-olefin having from 3 to 8 carbon atoms is used as a comonomer.

- 6. (currently amended) A<u>The</u> process as claimed in any of the preceding claims claim 1, wherein the at least one olefinic monomer is fed in at at least 2 points along the reactor tube.
- 7. (currently amended) A<u>The</u> process as claimed in any of the preceding claims claim 1, wherein the polymer formed is discharged continuously from the reactor.
- 8. (currently amended) A<u>The</u> process for polymerizing at least one olefinic monomer in a<u>the</u> first loop reactor as claimed in any of the preceding claimsclaim 1, wherein the first polymerization in thisthe first loop reactor is preceded or followed by at least one further polymerization step in a <u>second</u> loop reactor or a gas-phase reactor.